PTO/SB/51 (02-01)
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REISSUE APPLICATION DECLARATION BY THE INVENTOR

Docket Number (Optional) 740819-617

As a below named inventor, I hereby declare that: My residence, mailing address and citizenship are stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventory (if plural names are listed below) of the subject matter which is described and claimed in patent number 6.117.700 granted September 12.2000 and for which a reissue patent is sought on the invention entitled <u>METHOD FOR FABRICATING SEMICONDUCTOR DEVICE HAVING GROUP IIL</u> NITRIDE the specification of which is attached hereto. was filed on as reissue application number _ and was amended on (If applicable) I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.) by reason of a defective specification or drawing.

by reason of the patentee claiming more or less than he had the right to claim in the patent.

must be stated with an explanation as to the nature of the broadening:

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such

The original patent claims less than I had a right to claim due to the fact that specific methods also disclosed in the original patent application were not fully appreciated and, therefore, no claims directed to these methods were presented. In particular, I did not fully appreciate the significant aspect of my invention which discloses a method for fabricating a semiconductor device, comprising the steps of forming a semiconductor layer of a Group III nitride containing a dopant over a substrate, as well as other steps to make the conductivity type of the semiconductor layer p-type. For instance, I did not fully appreciate the significant aspect of my invention which discloses a method of applying RF power on the semiconductor layer. I also did not fully appreciate the significant aspect of my invention which discloses a method comprising the step forming a p-side electrode out of a metal on the semiconductor layer, and applying RF power on the semiconductor layer. In addition, I also did not fully appreciate the significant aspects of my invention which discloses a method comprising the step of charging plasma into the vacuum chamber to form an ambient of plasma while keeping the temperature of the substrate at about 600°C or lower after introducing the substrate into a vacuum chamber. Finally, I further did not fully appreciate the significant aspects of my invention which discloses a method comprising the steps of forming a p-side electrode out of a metal on the semiconductor layer, and after introducing the substrate into a vacuum chamber, charging plasma into the vacuum chamber to form an ambient of plasma while keeping the temperature of the substrate at about 600°C or lower. The issued claims 1-15 of the present patent fail to claim these methods Therefore, the original patent claimed less than I had a right to claim and have a narrower scope of protection. The above described methods and dependent variations thereof supported in the original patent are now claimed in added claims 16 to 43 of the subject reissue application.

[Page 1 of 2]

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NVA194328.1

by reason of other errors.

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(REISSUE APPLICAT	TION DECLARATION BY TH	(E INVENTOR, page 2)	Docket Number (Optional) 740819-617			
All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.						
Name(s)	Registration Number	Name(s)	Registration Number			
Daniel W. Sixbey Stuart J. Friedman Charles M. Leedom, Jr. David S. Safran Thomas W. Cole Donald R. Studebaker Jeffrey L. Costellia Tim L. Brackett. Jr.	20,932 24,312 26,477 27,997 28,290 32,815 35,483 36,092	Eric J. Robinson Marc S. Kaufman Daniel S. Song James E. Howard Corinne R. Gorski Jason H. Vick Luan C. Do	38,285 35,212 43,143 39,175 34,339 45,285 38,434			
Correspondence Addres	s: Direct all communications a	bout the application to:				
E Customer Number	22204 Type Customer Nun	nber here	Place Customer Number Bar Code Label here			
Firm or Individual Name						
Address						
Address		Second	7:-			
City		State	Zip			
Country		Fax				
Telephone Fax I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.						
Full name of sole or first inventor (given name, family name) Kenji ORITA						
Inventor's signature	Kenji Orita	Date(DateOctober 29, 2001			
Residence Osaka, Jap	oan	Citize	Citizenship Japan			
Mailing Address 1-44-	-9-C104, Tsunoe-cho, Takatsu	ki-shi, Osaka 569-0822,	Japan			
Full name of second joi Masahiro ISHIDA	nt inventor (given name, family	name)				
Inventor's signature	Moshiro Ishi	da Date	October 29, 2001			
Residence Osaka, Japan			enship Japan			
Mailing Address 24-6, Ikaga-nishimachi, Hirakata-shi, Osaka 573-0066, Japan						
Full name of third joint inventor (given name, family name) Shinji NAKAMURA						
Inventor's signature	Slight Ma Comment	Date(October 29, 2001			
Residence Osaka, Japan			enship Japan			
Mailing Address 1-3-507-403, Nasahara, Takatsuki-shi, Osaka 569-1041, Japan						
Additional joint inventors are named on separately numbered sheets attached hereto.						

[Page 2 of 2]

Docket Number (Optional) 740819-617

REISSUE APPLICATION DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 1 of 1

Full name of fourth joint inventor (given name, family name) Masaaki YURI				
Inventor's signature Masach Jun	Date October 29,2001			
Residence Osaka, Japan	Citizenship Japan			
Mailing Address 6-26-1201, Funaki-cho, Ibaraki-shi, Osaka 567-0828, Japan				
Full name of fifth joint inventor (given name, family name)				
Inventor's signature	Date			
Residence	Citizenship			
Mailing Address				
Full name of sixth joint inventor (given name, family name)				
Inventor's signature	Date			
Residence	Citizenship			
Mailing Address				
Full name of seventh joint inventor (given name, family name)				
Inventor's signature	Date			
Residence	Citizenship			
Mailing Address				
Full name of eighth joint inventor (given name, family name)				
Inventor's signature	Date			
Residence	Citizenship			
Mailing Address				
Full name of ninth joint inventor (given name, family name)				
Inventor's signature	Date			
Residence	Citizenship			
Mailing Address				
Full name of tenth joint inventor (given name, family name)				
Inventor's signature	Date			
Residence	Citizenship			
Mailing Address				

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REISSUE APPLICATION BY THE ASSIGNEE, OFFER TO SURRENDER PATENT

Docket Number (Optional)

740819-617

This is part of the application for a reissue patent based on the original patent identified below.

Name of Patentee(s)

Kenji ORITA, Masahiro ISHIDA, Shinji NAKAMURA, and Masaaki YURI

Patent Number

6,117,700

Date Patent Issued

September 12, 2000

Title of Invention

METHOD FOR FABRICATING SEMICONDUCTOR DEVICE HAVING GROUP III NITRIDE

Matsushita Electric Industrial Co., Ltd., is the assignee of the entire interest in the original patent.

I offer to surrender the original patent.

A certificate under 37 CFR 3.73(b) is attached.

I am authorized to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.

Name of assignee

Matsushita Electric Industrial Co., Ltd.

Signature of person signing for assignee

Date

October 29, 2001

artagawa

Hidemasa KITAGAWA

General Manager, IP Development Center

Typed or printed name and title of person signing for assignee

Authorized Signing Officer

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REISSUE APPLICATION: CONSENT OF ASSIGNEE;		Docket Number (Optional)	
STATEMENT OF NON-ASSIGNMENT		740819-617	
This is part of the application for a reissue patent based on the original	ginal pa	atent identified below.	
Name of Patentee(s)	- , , -		
Kenji ORITA, Masahiro ISHIDA, Shinji NAKAMURA	A, and	Masaaki YURI	
Patent Number	Date Patent Issued		
6,117,700		September 12, 2000	
Title of Invention			
METHOD FOR FABRICATING SEMICONDUCTOR DEVICE			
HAVING GROUP III NITRIDE			
1. E Filed herein is a statement under 37 CFR 3.73(b). (Fo	rm PT	O/SB/96)	
2. D Ownership of the patent is in the inventor(s), and no as	ssionm	ent of the patent is in effect.	
2, 2 0 a. p 2 a (2), a			
One of boxes 1 or 2 above must be checked. If multiple assignees box 2 is checked, skip the next entry and go directly to "Name of a			
The written consent of all assignees and inventors owning an undi included in this application for reissue.	vided i	nterest in the original patent is	
The assignee(s) owning an undivided interest in said original pater			
Co., Ltd., and the assignee(s) consents to the accompanying appl	ication	for reissue.	
Name of assignee/inventor (if not assigned)			
Matsushita Electric Industrial Co., Ltd.			
Signature ,	Date		
H. Witagawa	l	ober 29, 2001	
Typed or printed name and title of person for assignee (if assigned)		
Hidemasa KITAGAWA			
General Manager, IP Development Center	, Au	thorized Signing Office	

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NVA194405.1

STATEMENT UNDER 37 CFR 3.73(b)				
Applicant/Patent Owner: Matsushita Electric Industrial Co., Ltd.				
Application No./Patent No.: 6,117,700 Filed/Issue Date: September 12, 2000				
Entitled: METHOD FOR FABRICATING SEMICONDUCTOR DEVICE HAVING GROUP III NITRIDE				
Matsushita Electric Industrial Co., Ltd., a corporation (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)				
(Name of Assignee) (Type of Assignee, e.g., corporation, partnersmp, university, government agency, etc.) states that it is:				
1. the assignee of the entire right, title, and interest; or				
2. an assignee of less than the entire right, title and interest. The extent (by, percentage) of its ownership interest is%				
in the patent application/patent identified above by virtue of either:				
A. [] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.				
OR				
B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:				
 From: Kenji Orita, Masahiro Ishida, Shinji Nakamura, and Masaaki Yuri To: Matsushita Electronics <u>Corporation</u> The document was recorded in the United States Patent and Trademark Office at Reel <u>010222</u>, Frame <u>0748</u>, or for which a copy thereof is attached. 				
2. From: Matsushita Electronics Corporation To: Matsushita Electric Industrial Co., Ltd. The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.				
3. From:				
[] Additional documents in the chain of title are listed on a supplemental sheet.				
[X] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]				
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.				
October 29,2001 Hidemasa KITAGAWA				
Date Typed or printed name				
General Manager, Signature IP Development Center, Authorized Signing				
General Manager, Signature				
The Development Center, Authorized Signing Officer Title				
THE				

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RECORDATION FORM COVER SHEET

PATENTS ONLY

To the Honorable Commissioner of Patent and Trademarks. Please record the attached original documents or copy thereof.

_1.	Name of conveying party(ies): MATSUSHITA ELECTRONICS CORPORATION
Add	litional name(s) of conveying party(ies) attached? _ Yes <u>x</u> No
2.	Name and address of receiving party(ies):
Nan	ne: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
	et Address: 1006, Oaza Kadoma, Kadoma-shi
	OSAKA Country: JAPAN ZIP: 571-8501
Add	litional name(s) & addresses(es) attached?Yes _x No
3.	Name of Conveyance:
	Assignmentx Merger
	Security Agreement Change of Name
	Other
	Execution Date: April 4, 2001
4.	Application number(s) or patent number(s): <u>SEE ATTACHED.</u>
4	If this document is being filed together with a new application, the execution date of the application is:
	Title:
	A: Patent Application No. B. Patent No.(s)
#	Additional numbers attached? x Yes No
5	Name and address of party to whom correspondence concerning document should be mailed:
	N MINON DE ADONNI I D
	Name: NIXON PEABODY LLP Street Address: 8180 Greensboro Drive, Suite 800
	City: McLean State: Virginia ZIP 22102
<u>ļ.</u> i.	
6.	Total number of applications and patents involved: 105
_	
7.	Total fee (37 CFR 3.41):\$ 4200.00
	x Enclosed (Check Attached)
	Authorized to be charged to deposit account
	x Authorized to charge any deficiency in the payment of the required fee(s) or credit any overpayment to Deposit
	Account No. 19-2380.
8.	Deposit Account Number:
	(Attach duplicate copy of this page if paying by deposit account)
	DO NOT USE THIS SPACE
9.	Statement and signature.
	To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original
doci	iment.
	J. Robinson June 7, 2001
Nan	ne of Person Signing Signature Date
Tota	al number of pages comprising cover sheet, attachments and document; 10

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